SCIENTIFIC INSTRUMENTS,

HORNE & THORNTHWAITE'S Descriptive Catalogue

OF

SCIENTIFIC INSTRUMENTS,

121, 122, & 123, NEWGATE ST., LONDON.

PART 2.

PHOTOGRAPHIC APPARATUS AND CHEMICALS.

Messrs. Horne & Thornthwaite beg respectfully to observe, that all orders from abroad, or from country customers, must be accompanied by a remittance of order for payment in London, otherwise they cannot be forwarded. Attention to this particular will ensure their dispatch in the shortest possible time, Should the order be forwarded through an agent, it is particularly reflected, to prevent disappointment, that implicit instructions be given that it is to be executed by Messrs. H. & T.; and, in orders from abroad, if the name of the country be also supplied, it will enable them to construct or select instruments that shall not be affected by the climate of the locality for which they are intended.

Messrs. HORNE & THORNTHWAITE beg to state, that by far the greater number of the aticles enumerated in the following List are manufactured by their own workmen on the premises, and, consequently, under their own immediate superintendence, and will be found of the best construction, and at prices extremely moderate for first-class instruments. They have also much pleasure in informing their friends and the public, that they have lad awarded to them the Great Exhibition

PRIZE MEDAL



FOR PHOTOGRAPHIC APPARATUS.

Prery explanation and instruction, both as to the theory and manipulation of the various photographic Processes, will be given gratuitously to purchasers of apparatus and others lesing information, either by letter or personally, at their Establishment, No. 122, Newgate street, where they have erected a Glass Room expressly for Photographic Experiments.

FEBRUARY, 1857.

[SEVENTH EDITION.]

Thirteenth Edition, just published, price 1s., post-free 1s. 2d.,

A GUIDE TO PHOTOGRAPHY:

CONTAINING SIMPLE AND CONCISE

Directions for obtaining Views, Portraits, &c., by the Action of Light on Prepared Surfaces of Paper and Glass, including Plain Directions for the production of Positive and Negative Collodion Pictures, and for taking Landscapes, &c., &c., by the Calotype and Waxed Paper Process;

Clear Instructions in the New Collodio-Albumen Process, and Printing Positives on Paper; with the Method of Taking Stereoscopic Pictures.

BY W. H. THORNTHWAITE,

Author of "Photogenic Manipulation," &c.

Chirtcenth Edition.

SIMPKIN AND MARSHALL, STATIONERS' HALL COURT; AND HORNE AND THORNTHWAITE, 122 & 123, NEWGATE STREET, LONDON.

HORNE & THORNTHWAITE'S COMPOUND LENSES FOR PHOTOGRAPHY.

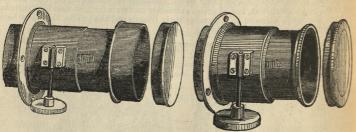


Fig. 1071.

Fig. 1077.

THE portrait and landscape combinations of Horne & Thornthwalls own manufacture are strongly recommended to the photographic public s possessing a new feature in portrait lenses; viz., that of a long chemical rame by which every part of the sitter is in good focus in the pictures produced by them, whilst their rapidity of action is ensured by a peculiarity of the mode of correction in their manufacture, which guards against any of the yellow rais being left uncorrected (as those rays, if not corrected, would make the lens slow in action). The chemical and optical rays perfectly coincide, and the definition is such as to produce every minute detail with perfect distinctness; indeed Messrs. Horne & Thornthwaite venture to assert, without fear of contra

diction, that the lenses they now manufacture are superior to those of foreign

production, and are not to be excelled by those of any maker.

As customers frequently require lenses of good average quality only, they have made arrangements to supply two other qualities without maker's name.

PORTRAIT LENSES.

- Any purchaser may see any lens of our manufacture tested and a picture produced by it; or, where such is not practicable, a picture taken by the lens will be supplied, if desired, as a guarantee of its qualities, without extra charge.
- Portrait Combination, consisting of two compound achromatic lenses, in handsome brass mountings, with rack and pinion adjustment, the lenses 1³/₄ inches in diameter, for taking pictures 4¹/₄ inches by 3¹/₄ inches, 14s.
- 1067 Ditto, ditto, superior quality, £1 4s. 6d.
- 1068 Ditto, ditto, Horne & Thornthwaite's own manufacture, £3 13s. 6d.
- Portrait Combination, consisting of two compound achromatic lenses, in handsome brass mountings, with rack and pinion adjustment, the lenses $2\frac{3}{5}$ inches in diameter, for producing pictures $6\frac{1}{2}$ inches by $4\frac{3}{4}$ inches, £2.
- 1070 Ditto, ditto, superior quality, £2 17s. 6d.
- 1071 Ditto, ditto, Horne & Thornthwaite's own manufacture, £7.
- 1071A Ditto, arranged for taking portraits up to $6\frac{1}{2}$ inches by $4\frac{3}{2}$ inches, and views 9 inches by 7 inches, with three variable stops, £8 8s.
- 1072 Portrait Combination, consisting of two compound achromatic lenses, in handsome brass mountings, with rack and pinion adjustment, the lenses 3½ inches in diameter, for producing portraits, &c., 8 inches by 6 inches, fig. 1071, £5
- 1073 Ditto, ditto, superior quality, £8 10s.
- 1074 Ditto, ditto, Horne & Thornthwaite's own manufacture, £15 15s.
- lo74A Ditto, arranged for taking portraits up to 8 inches by 6 inches, and views 12 inches by 10 inches, with three variable stops, £17 17s.

The front lens of this Portrait Combination may be used for taking views 12 inches by lines; but its great length of focus renders it inapplicable for the production of pictures of a smaller size. Where these are required, one of the landscape lenses, page 92, must be supposed.

- Portrait Combination (Horne & Thornthwaite's own manufacture), consisting of two compound achromatic lenses, in handsome brass mountings, with rack and pinion adjustment, the front combination 3½ inches diameter and the posterior combination 4½ inches, for producing pictures 9 inches by 7 inches, £22.
- 1076 Ditto ditto, with both lenses 4\frac{1}{4} inches in diameter, for pictures 10 inches by 8 inches, £32.

apertures are employed.

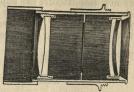


Fig. 1071.*

Whenever the lenses are removed from their cells, in order to be cleaned, it is very important that they be replaced in the same order as regards their position, &c. Instances are not unfrequent of lenses being returned from a distance, with a list of their defects, which are immediately remedied by placing them in their correct positions.

The front lens of a portrait combination is composed of two different kinds of glass, which are foined together by a transparent cement. The convex side of this lens must be towards the sitter. The two back lenses are of different shapes, so that they may easily be recognized; the one with the thick edge must be placed with its convex side towards the sitter, and must be the nearest of the two to the front lens. The back lens is thin at the edge, and its most convex side must be towards the sitter, as shown by the above cut.

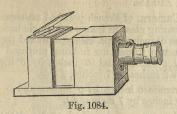
The front lens of the portrait combinations 1071 and 1073 can be used for taking pictures of views, monuments, buildings, &c., by being removed from its portrait mounting, and screwed into a brass mounting similar to fig. 1077.

Three stops, with different sized apertures, are supplied with the view mounting and with landscape lenses; but which is to be selected for use in each particular case, misdepend on the judgment of the operator. In dull weather, and in copying objects indiferently illuminated, the largest size aperture stop is used; the middle size stop is for general use in moderate light, and the smallest size when the object to be copied is exposed to full sunshine or great sharpness is required; and it may be taken as a general rule, within certain limits, that the smaller the aperture which admits the light, the greater is the sharp ness of the picture produced, but the time of exposure must be increased where such small

LANDSCAPE LENSES, OF HORNE & THORNTHWAITE'S OWN MANUFACTURE,

- Landscape Lens, consisting of one achromatic combination 13 inches 1077 in diameter and 8 inches focal length, mounted in brass, with rack and pinion adjustment, for producing pictures 6 in. by 5 in., £1 15s.
- Landscape Lens, consisting of one achromatic combination 2 inches in diameter and 10 inches focal length, mounted in brass, with rack and pinion adjustment, for producing pictures 7 in. by 6 in., £2 12s. 6d.
- 1079 Landscape Lens, consisting of one achromatic combination 28 inches in diameter and 14 inches in focus, mounted in brass, with rack pinion adjustment, for producing pictures 9 in. by 7 in., £3 13s. 6d.
- 1080 Landscape Lens, consisting of one achromatic combination 3 inches in diameter and 16 inches focal length, mounted in brass, with race and pinion adjustment, producing pictures 12 in. by 10 in., £5 5s.
- 1080 α Landscape Lens, 4 inches diameter, for pictures 16 in. by 12 in., £10 l0 For the prices of unmounted Landscape Lenses, of ordinary make, see No. 1136

PHOTOGRAPHIC CAMERAS.



EXPANDING CAMERAS.

- logia Expanding Camera of walnut wood, with sliding body, focusing glass in frame, one single back and two plate holders, for taking pictures up to $4\frac{1}{4}$ inches by $3\frac{1}{4}$ inches, 9s.
- 10816 Ditto, for taking pictures up to 6 inches by 5 inches, 12s.
- 1081c Ditto, for taking pictures up to 8 inches by 6 inches, 18s.
- Expanding Camera, of French polished mahogany, with sliding body, focusing glass in frame, and single back, for taking pictures on glass or paper up to 5 inches by 4 inches, £1.
- 1082 Expanding Camera, as described at No. 1081, fitted with single achromatic lens, No. 1077, £2 16s.
- 1063 Expanding Camera, as described at No. 1081, fitted with double combination of achromatic lenses, No. 1068, £4 13s. 6d.
- Expanding Camera, of French polished mahogany, with sliding body, fig. 1084, focusing glass in frame, one single back, for taking pictures either by the daguerreotype, calotype, waxed paper, or collodion processes, with two frames for holding prepared plates 4 inches by 3 inches, and 3\frac{1}{4} inches by 2\frac{3}{4} inches, and capable of taking views 6 inches by 5 inches, £2 12s. 6d.
- Expanding Camera, as described at No. 1084, fitted with single achromatic lens, No. 1077, £4 8s.
- Expanding Camera, as described at No. 1084, fitted with double combination of achromatic lenses, adapted for taking portraits 4 inches by 3 inches, £6 6s.
- Expanding Camera, of French polished mahogany, with sliding body, fig. 1084, with focusing glass in frame, one single back, for taking pictures either by the daguerreotype, calotype, waxed paper, or collodion processes, with two frames for holding prepared plates, 6 inches by 5 inches, and 5 inches by 4 inches, and capable of taking views 7 inches by 6 inches, £3 15s.
- Expanding Camera, as described at No. 1087, fitted with single achromotic lens, mounted in brass, with rack and pinion adjustment capable of taking views 7 inches by 6 inches, £6 8s. 6d.

- 1089 Expanding Camera, as described at No. 1087, fitted with double combination of achromatic lenses, handsomely mounted in brass, with rack and pinion adjustment, adapted for taking portraits 6 inches by 5 inches, £10 15s.
- 1090 Expanding Camera, of French polished mahogany, with sliding body, fig. 1084, focusing glass in frame, one single back, for taking pictures either by the daguerreotype, calotype, waxed paper, or collodion processes, with two frames for holding prepared plates, for portraits 8 inches by 6 inches, and 6 inches by 5 inches, and capable of taking views 9 inches by 7 inches, £4 4s.
- 1091 Ditto, for portraits 6 inches by 5 inches, and 5 inches by 4 inches, and views 9 inches by 7 inches, £4.
- 1092 Expanding Camera, as described at No. 1090, fitted with single achromatic lens, mounted in brass, with rack and pinion adjustment, adapted for taking views 9 inches by 7 inches, £7 13s. 6d.
- Expanding Camera, as described at No. 1090, fitted with a double combination of achromatic lenses, adapted for taking portraits up to 6 inches by 5 inches, and the front lens capable of being used for taking views, 9 inches by 7 inches, by being screwed into a separate mounting, £12 8s.
- 1094 Expanding Camera, as described at No. 1090, fitted with a double combination of achromatic lenses, adapted for taking portraits up to 8 inches by 6 inches, £19 19s.
- Expanding Camera, of French polished mahogany, with sliding body, fig. 1084, with focusing glass in frame, one single back for taking pictures either by the daguerrectype or collodion processes, and one double back for taking pictures by the calotype or wax paper processes, with two frames for holding prepared plates 8 inches by 6 inches, and 6 inches by 5 inches, and capable of taking views 12 inches by 10 inches, £11.
- 1097 Expanding Camera, as described at No. 1096, fitted with single achromatic lens, mounted in brass, with rack and pinion adjustment, adapted for taking views 12 inches by 10 inches, £16 5s.
- Expanding Camera, as described at No. 1096, fitted with double combination of achromatic lenses, mounted in brass, with rack and pinion adjustment, adapted for taking portraits up to 8 inches by 6 inches, and views 12 inches by 10 inches, the front lens capable of being used for taking views as described at page 92, £28.
 - N.B.—It should be observed that these prices do not include a double camera back. For prices see Nos. 1131, 1132, 1133.
 - If any of these cameras are intended for India or other hot countries, it is necessary they should be constructed of Spanish mahogany, and the sides clamped with brass, so as to ensure their withstanding the effects of climate. This will add an extra expense to No. 1084, of £1 10s.; to No. 1087, an extra expense of £1 11s. 6d.; to No. 1090, an extra expense of £2 10s.; and to No. 1096, £3 10s.

HORNE & THORNTHWAITE'S FOLDING CAMERAS.

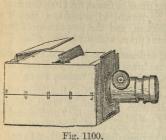




Fig. 1100.

Fig. 1124.

FOLDING CAMERAS.

- HORNE & THORNTHWAITE'S Portable Folding Camera can be be highly recommended for tourists, travellers, and others requiring a most effective instrument for taking views, portraits, &c., combined with the smallest possible bulk and weight. The sides are hinged so as to fold inwards, so that when closed a camera for taking pictures 7 inches by 6 inches, focusing frame and backs, will pack into a case, fig. 1124, external diameter of which is 15 inches long, $9\frac{1}{2}$ inches wide, and 4 inches thick, and is so constructed as to be adapted for both paper and glass processes, and is not liable to any injurious effect of climate.
- 1099 Portable Folding Camera, of Spanish mahogany French polished, with one aperture for views only, adapted for taking pictures 7 inches by 6 inches, with one double back, for holding two pieces of prepared paper, and focusing glass in frame, £4 4s.
- 1100 Portable Folding Camera, of Spanish mahogany French polished, with two apertures adapted for taking pictures 7 inches by 6 inches —the anterior one for portraits, and the posterior one for views; with one double and one single back, and two frames for holding prepared plates, fig. 1100, without lenses, £5.
- Portable Folding Camera, as described at No. 1099, fitted with single achromatic lens, in handsome brass mountings, with rack and pinion adjustment, for taking views 7 inches by 6 inches, £6 16s 6d.
- Portable Folding Camera, as described at No. 1100, fitted with double combination of achromatic lenses, mounted in brass, with rack and pinion adjustment, for taking portraits 6 inches by 5 inches, and with single achromatic lens, in brass mountings, with rack and pinion adjustment for taking views, 7 inches by 6 inches, £14 12s.6d.
- Portable Folding Camera, of Spanish mahogany French polished, with one aperture for views only, adapted for taking pictures 9 inches by 7 inches, with one double back for holding two pieces of prepared sensitive paper, and focusing glass in frame, £4 14s. 6d.

- Portable Folding Camera, of Spanish mahogany French polished adapted for taking pictures 9 inches by 7 inches, with two apertures—the anterior one for taking portraits, and the posterior one for views, with one double and one single back, and two frames for holding prepared plates, focusing glass in frame, fig. 1100, the front of this camera has a vertical and horizontal adjustment, so that it may be used either on its side or bottom, and the proportion of foreground and sky varied in the picture: price, without lenses, £7.
- Portable Folding Camera, as described at No. 1103, fitted with single achromatic lens, in handsome brass mountings, with rack and pinion adjustment, for taking views 9 inches by 7 inches, £8 8s.
- Portable Folding Camera, as described at No. 1104, fitted with double combination of achromatic lenses, mounted in brass, with rack and pinion adjustment, for taking views 9 inches by 7 inches, and portraits 6 inches by 5 inches—the front lens of the combination capable of being used for taking views as described at page 92, £15 8s.
- Ditto, with double combination lenses, for taking portraits 8 inches by 6 inches, and single lens for views 9 inches by 7 inches, £26 8s. 6d.
- Portable Folding Camera, of Spanish mahogany French polished, adapted for taking pictures 12 inches by 10 inches, with one aperture for views only, one double back for holding two pieces of prepared sensitive paper, and focusing glass in frame—the front of this camera can be moved in an horizontal and vertical direction by sliding adjustment, so as to vary the proportion of the foreground and sky in a picture, £8.
- Portable Folding Camera, of Spanish mahogany French polished, adapted for taking pictures 12 inches by 10 inches, with two apertures—the anterior one for taking portraits, and the posterior one for views, with one double and one single back, and two frames for holding the prepared plates, and focusing glass in frame—the front of this camera has a vertical and horizontal adjustment, so that it may be used either on its side or bottom, and the proportion of foreground and sky in a picture may be varied, £11 12s.
- Portable Folding Camera, as described at No. 1108, fitted with single achromatic lens, handsomely mounted in brass, with rack and pinion adjustment, for taking views of any size up to 12 inches by 10 inches, £13 5s.
- Portable Folding Camera, as described at No. 1109, fitted with double combination of achromatic lenses, in handsome brass mountings, with rack and pinion adjustment, for taking views 12 inches by 10 inches and portraits 8 inches by 6 inches—the front lens capable of being used, for taking views as described at page 92, £29 9s.
- 1112 Soft leather cases for lenses, 2s., 2s. 6d., and 4s. each.
- 1113 Sling leather cases, with straps for ditto, 10s. 6d., 15s., and 18s. each

PORTABLE FOLDING AND EXPANDING CAMERAS.

See fig. 24, in Thornthwaite's Guide to Photography.

- Portable Folding and Expanding Camera, of Spanish mahogany, with hinged sides, the body and sliding part folding inwards, so as to occupy but little space when closed—this form of camera possesses the advantage of its length being so capable of being varied, that lenses of almost any focal length may be used.
- 1114 Portable Folding and Expanding Camera, with one single back, for taking pictures 7 inches by 6 inches, with two frames for holding prepared plates, and focusing glass in frame, £6 6s.

1115 Ditto, fitted with single achromatic lens, mounted in brass, with rack-

work adjustment, for views 7 inches by 6 inches, £8 18s. 6d.

Ditto, fitted with double combination of achromatic lenses, for taking portraits up to 6 inches by 5 inches, £13 13s.

1117 Portable Folding and Expanding Camera, with one single back, for taking pictures 9 inches by 7 inches, with two frames for holding prepared plates, and focusing glass in frame, £7 7s.

1118 Ditto, fitted with single achromatic lens, mounted in brass, with rackwork adjustment, for taking views 9 inches by 7 inches, £11 0s. 6d.

- lll9 Ditto, fitted with a double combination of achromatic lenses, adapted for taking portraits 6 inches by 5 inches, and views 9 inches by 7 inches, with one double and one single back, £17 5s.
- Portable Folding and Expanding Camera, with one single back, for taking pictures 12 inches by 10 inches, with two frames for holding prepared plates, and focusing glass in frame, £11.

1121 Ditto, fitted with achromatic lens, in brass mountings, with rack and pinion adjustment, for producing pictures up to 12 inches by 10 inches.

£16 5s.

1122 Ditto, fitted with compound achromatic lenses, for taking portraits up to 8 inches by 6 inches, and views 12 inches by 10 inches, with one double and one single back, £31 9s.

CASES FOR FOLDING CAMERAS.

- 123 Solid leather case for a folding camera producing pictures 7 inches by 6 inches, fig. 1124, £1 7s. 6d.
- 1124 Ditto for a camera producing pictures 9 inches by 7 inches, £1 12s.
- 1125 Ditto for a camera producing pictures 12 inches by 10 inches, £2 10s.

STEREOSCOPIC CAMERA.

- Stereoscopic Camera, fig. 1126, mounted on base board, with parallel rulers and camera back, for taking stereoscopic pictures, and fitted with double combination of achromatic lenses, with stops, taking either views or portraits, £6 10s.
- 1126a Box Stereoscopic Camera, with view lens, arranged to carry six prepared plates: price with stand complete, and very portable, £8 8s.

CAMERA BACKS, OR EXPOSING FRAMES.

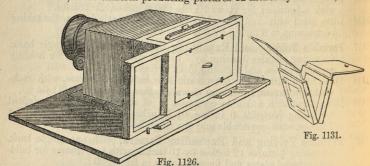
All our camera backs and the openings of the cameras are now made to standard sizes, so that, in case a purchaser who may possess one of our cameras should require additional backs, he can obtain them without sending us the camera to have them fitted.

1127 Single Camera Backs or Exposing Frames, to fit cameras producing pictures 6 inches by 5 inches, with two frames for holding prepared plates, 17s.

1128 Ditto, to fit cameras producing pictures 7 inches by 6 inches, £1 28.

1129 Ditto, to fit cameras producing pictures 9 inches by 7 inches, £1 10s.

1130 Ditto, to fit cameras producing pictures 12 inches by 10 inches, £2 128.



DOUBLE CAMERA BACKS.

HORNE & CO.'S double back is so constructed that two pieces of sensitive paper can be laid into it, back to back, and is furnished with a sliding cover to each. When a camera is arranged to take a view, with the double back in its place, the anterior sliding cover is drawn out so as to expose one sheet of the sensitive paper to the action of light. After the necessary exposure has taken place, the sliding cover is pushed down, the double back withdrawn from the camera, and if a second picture is required of the same object or view, the back is turned round and replaced in its position in the camera; but now, having the other sensitive sheet next the lens, the anterior sliding cover is withdrawn, and the paper exposed the necessary time to the action of light; when this has taken place, the sliding cover is pushed down so as to guard the paper from the influence of light in the usual manner.

This form of back offers the advantage of affording the means of taking two pictures without any increase in size over the old form of single back, in which one picture only could be taken without changing and

can be applied to any form of camera.

Double Camera Backs, to fit cameras producing pictures 7 inches by 6 inches, fig. 1131, £1 2s.

1132 Ditto, to fit cameras producing pictures 9 inches by 7 inches, £1 10s.

1133 Ditto, to fit cameras producing pictures 12 inches by 10 inches, £2 12s.

- Parallel Mirrors, mounted in brass frame, to attach to the front of the camera, for taking pictures in a correct position for 4-plate lenses, £1 10s.
- 1135 Ditto, ½-plate ditto, £2 12s. 6d.

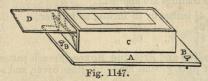
Photographic Landscape Lenses, unmounted, of ordinary achromatic construction, suitable for taking views by the waxed paper or collodion process.

Our own manufacture of landscape or portrait lenses are not sold except in a mounted state, as described at page 91.

1136 1137	13 inch	diameter,		inches focus				£0 1		
	2	"	,, 9	,,	10.01	THE YELL	19.7.	0 1	14	0
1138	21/4	"	,, 10	"				0 1	18	0
1139	$2\frac{1}{2}$	22	,, 12	7	bma.so	dhor :		1	5	0
1140	3	"	,, 14	mo was, order	mi. bb	edias.		1]	16	0

Plano-convex, crossed, meniscus, and every other description of lens required in photographic experiments.

1141 Claudet's Focimeter, for ascertaining the amount of separation existing between the optical and chemical foci of lenses, £1 10s.



IODINE AND BROMINE PANS.

Iodine and Bromine Pans, of glass, with air-tight ground glass covers.

1142	For plates	up to 41 in	ches by	$4\frac{1}{4}$ inches $4\frac{3}{4}$, $6\frac{3}{4}$,				
1143	"	$\frac{6\frac{1}{2}}{8\frac{1}{2}}$	"	$\frac{43}{4}$,		 	0 12	0
1144	"	$,, 8\frac{1}{2}$	"	64 ,,	•••	 	1 5	0

Wood frames for holding the plates of any size for No. 1142 Iodine and Bromine pans, 1s. each.

1146 Ditto, for 1143 or 1144 pans, 1s. 6d. each.

Iodine and Bromine Boxes, single, of walnut wood, with delf pans, ground air-tight glass covers, and frames for holding the plates.

1147	For plates	up to $4\frac{1}{4}$	inches	by 31/4	inches		£0 13	
1148	"	", $6\frac{1}{2}$ "	22	43	"		0 16	
1149	22	$, 8\frac{1}{2}$, ,,	$6\frac{1}{2}$	"	***	 1 1	U

Iodine and Bromine Box, single, of French polished mahogany, with glass pan, ground air-tight glass cover, frames for holding plates, and mirror for viewing the plate while under the influence of the vapour.

1152	For plates 44	inches	by $3\frac{1}{4}$	inches				£1 4	
1153	6	72	$4\frac{3}{4}$	"	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	 		1 11	6
1154	8		$6\frac{1}{2}$	"	eterior s	 	•••	2 12	6

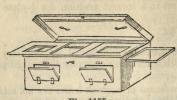




Fig. 1155. Fig. 1161.

IMPROVED IODIZING AND BROMINE APPARATUS.

Double Iodine and Bromine Boxes, consisting of two stout glass pans, enclosed in mahogany or walnut wood case, with spring bottoms and air-tight glass covers, and set of frames for holding the plates. Two mirrors are placed on one side for viewing the plate while being prepared; and on the other two, apertures for the admission of light. The great advantage of this form of apparatus for preparing plates, consists in the facility and certainty with which the sensitive coatings are applied.

1155	For plates 42	inches by	$3\frac{1}{4}$ inches, a	nd under	 £2		
1156	$\frac{1}{2}$, $\frac{1}{2}$, ,	$4\frac{3}{4}$,,	,,	 3	0	0
1157	. 8		$6\frac{1}{5}$	"	 0	U	U

Double Iodine and Bromine Boxes, French pattern, of walnut wood, with delf pans, ground air-tight glass cover, and set of frames, without mirrors.

1158	For plates	up to 4	d inches	by $3\frac{1}{4}$ inches	MULCO	 £	1 6	0
1159	" "	,, 6	$\frac{1}{2}$ "	$4\frac{3}{4}$,,		 	1 12	0
1160	••	,, 8	1	$6\frac{1}{4}$	90	 	2 2	U

MERCURY BOXES.

Mercury Box, of polished mahogany, with window of yellow glass, for viewing the picture during the action of the mercury, shifting legs, cast-iron cistern, and frames, complete, fig. 1161.

	For plates $4\frac{1}{4}$ i	inches by	$3\frac{1}{4}$ inches	•••	 	£1 1 0 1 10 0
1162 1163	$\frac{6\frac{1}{2}}{8\frac{1}{2}}$	"	$\frac{4\frac{3}{4}}{6\frac{1}{5}}$ "			1 15 0
	Mercury Box		4 "			nometer.

1164 For plates 4½ inches by 3½ inches £0 12 0 1165 , 6½ , 4½ , 0 16 0 1166 ... 8½ ... 6½ 1 2 0

1167 Thermometers, with ivory scales to mercury boxes, 7s. 6d. each.

1168 Frames for the above mercury box, any size, 1s. 6d. each.

Silvered Plates	for	the	Daguerreotype,	of English manufacture.
0: 01 1 1		US 48 FT		

1100	d.	01				OT		0	THE PARTY OF	100 TO 10	
1169	Size	2章	inches by	2 inches	AND AND DOOR	BOO	leg years	per dozen	fo	19	0
1170	77	23		91	CONTROL OF THE PARTY OF THE PAR			Por dozon	200	14	U
	77	-4	22		•••		•••	22	0	18	()
1171	22	4	27	3 "	THE TRACTIONS	90999		SUPPLICATE TO ASSESSE	7	0	0
1172		11		21 "		•••	•••	22	1	0	U
	"	44	" "	94 "				22	1	12	0
1173	22	5	,,,	4				"	0		0
1174	"	61	"	12 "	HU SDANGE IN		Bler wol	22	2	5	U
	22	05	. 22	44 ,,					3	5	0
1175	200	81/2		61			12	"	0	- 0	U
	"	2	2)	02 "	•••	•••		12	5	10	0

Silvered Plates for the Daguerreotype, best French manufacture.

			Size.					0.4		N	o. 3	0.	Elec	etro-	-plat	ed.
1180	ดา	inches	bize.	0:	-1		£	8.	d.	£	8.	d.		£	s.	d.
1181	23	menes	suy	21	ucnes,	per dozen	0	3	6	 0	4	0		0	5	6
1182		"		34	"	"	0	5	6	 0	6	6		0	8	9
		"		3	22	"	0	8	0	 0	9	0		0	10	6
1183	-4	"		$3\frac{1}{4}$	22.	"	0	8	6	 0	9	6		0	11	0
1184		"		4	"	"	0	12	0	 0	13	6		0	16	0
1185	$6\frac{1}{2}$	22		43	"	22	0	17	. 6	 0	18	6		1	1	0
1186	81	22		$6\frac{1}{2}$	27	,,	1	14	0	 1	16	6	March	2	0	0

Plate Boxes, of polished mahogany, for holding one dozen daguerreotype plates.

1100	-			AND DESCRIPTION					
1187	For plates	25	inches	by 2	inches		£0	3	0
1188		31						0	
1189	"	04	"	$2\frac{3}{4}$	"		0	3	6
	22	4	"	3	"	en Venn	0	4	0
1190		11		$3\frac{1}{4}$	September 1997		0	1	
1191		14	"		22		U	4	3
The State of the Late	27	5	"	4	"		0	4	6
1192	"	61		43			0	5	6
1193	"	oÏ	22	61	"	133.00	0		5 321
-200	27	02	22	$6\frac{1}{2}$	22		0	6	6

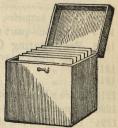


Fig. 1187.

POLISHING APPARATUS, &c.

Lathe, complete, with collar, mandrel, iron wheel and treddle, wood frame and bed, mounted with two circular velvet buffs, 9 inches diameter, and two plate holders, for sixth or quarter plates, from £5 5s.

PLATE-HOLDERS.

Metal Plate-holders, for use with circular buffs in the lathe, or for securing the plate while buffing by hand, of superior make.

7	0				0 0	,	or sale.	LIOI III	corro.			
1195	For plates,	$2\frac{1}{2}$	inches by	2 in	ches					£0	6	0
1130	22	$3\frac{1}{4}$	"	$2\frac{3}{4}$	"					0	-7	0
1197		4	"	3	"					0	8	0
1198	22	5	- 22	4	"			•••		0	10	0
1199	Hand Woo	5	Handle.	with	steel pin	for 11	se with	ditto		0	1	0

Plate-holders, of wood, with brass corners and cramp to fix to table while cleaning or polishing, for any size of plate from $2\frac{1}{2}$ inches by 2 inches to $8\frac{1}{2}$ inches by $6\frac{1}{2}$ inches, 2s. to 4s.

American Plate-holder, consisting of an iron clamp and screw, with blocks for the various sized plates; this arrangement retains the plate very firmly during the application of the buff, and will be found of great convenience, especially for French plates.

	81000 0011		THE PROPERTY OF	THE THE STATE OF T				en	7	B
1201	Clamp							£0	-	U
1202	Iron Block,	for plate	s 2½ in	nches by	y 2 i1	nches		0		
1203	"	"	23	"	34	"		0		
1204	,,	"	4		3			0	3	U
1205	,,	,,	$6\frac{1}{2}$	"	43	,,	· make Pro 1	0	9	U
THE WAY IN				7 7	C	17	Danah ale	ton to m	OVA	nt.

1206 Plate-bender, for bending the edges of thin French plates, to prevent injury to the buff, 8s.

1207 Pliers, of an improved form, for bending the corners of plates, and also for holding the plate in drying, 2s.

ELECTRO-SILVERING APPARATUS.

For giving a coating of pure silver to Daguerreotype plates, and also for re-silvering used-up plates.

1214 Smee's batteries, one-pint size, 10s.

1215 Ditto, one-quart size, 12s. 6d.

1219 Pure silver foil for the above, 10s. per ounce.

1220 Argento-cyanide of potassium, or silvering solution, 10s. per pint.

1221 Ditto ditto, full strength, 1s. per ounce.

1222 Electro-silvering Apparatus, complete, for silvering any size plate up to 6½ inches by 4½ inches, consisting of a No. 1204 Smee's Battery, glass cell fitted with the necessary binding screws, one ounce of pure silver in foil, and one pint of silvering solution of the proper strength in stoppered glass bottle, £2 10s.

1223 Ditto ditto, for any size plate up to 8\frac{1}{2} inches by 6\frac{2}{4} inches, £4 48.

BUFFS.

Buffs, to work with the hand, covered with prepared silk or cotton velvet or doeskin leather, fig. 1225, or plain, according to size.



Fig. 1225.

		Cotto	n V	elve	t.	Silk	Vel	lvet.		oeskin.
	Size.	£	8.	d.		£	8.	d.	£	s. d.
1126	12 inches by 3 inches	 0	3	0		0	4	0	 0	5 6
1227	15 , 3 ,	 0	4	0		0	5	0	 0	6 6
1228	16 , 4 ,	 0	4	6		0	6	0	 0	7 6
1229		 0	5	0		0	7	6	 0	8 0

1230 Best carded cotton wool, 3s. per lb.

1231 Sifting Boxes, hard wood, for containing polished powders, 1s. 6d. each.

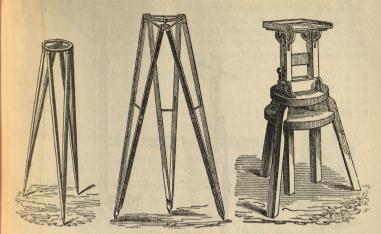


Fig. 1232.

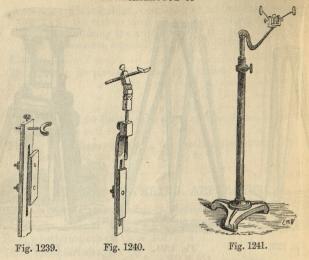
Fig. 1234.

Fig. 1237.

CAMERA STANDS.

In order to keep the camera steady when taking views or portraits, and to raise or depress it as may be required, a camera stand is absolutely essential. If for the operating rom only, where weight or bulk is no consideration, the table-stand, fig. 1237, is the most useful; but where the object is to take views, &c., as in travelling, the portability of the tand becomes of equal importance with its steadiness. The forms of fig. 1232 or 1234 asswer well, and will be found suitable for the purposes intended.

- Camera Stand, fig. 1232, with double tripod legs and circular wooden top, with plate to be fixed to the bottom of camera, and tightening screw, small size, 4 feet high, 10s. 6d.
- 1233 Ditto, large size, $4\frac{1}{2}$ feet high, 12s. 6d.
- Camera Stand, fig. 1234, with double tripod legs with brass stretchers, triangular brass top, with plate to be fixed to the bottom of camera, and tightening screw—this form of stand will be found very convenient for use, and, from its construction, remarkably firm and portable, and suitable for any sized camera, £1 5s.
- 1235 Camera Stand, with brass top and ash legs, very light and steady, £1 11s. 6d.
- Camera Stand, with jointed legs, capable of being packed in an ordinary portmanteau, £1 11s. 6d.
- Table Stands, with all the required adjustments, particularly adapted for the operating room, in white wood, with brass screws, fig. 1237, £1.
- 1238 Ditto, in oak, £1 6s.



HEAD RESTS.

Head rests are necessary in order to keep the head of the sitter perfectly steady whilst a portrait is taken.

1239 Head Rest, to attach to the back of a chair, of the simplest construc-

tion, fig. 1239, 2s.

1240 Head Rest, to attach to the back of a chair, with joints, so that the head piece can be raised, depressed, or placed at any required angle,

fig. 1240, 5s. 3d.

1240a Universal Head Rest, mounted on heavy foot, with sliding adjusting tube for steadying the head, when the person is either standing or sitting, without the aid of a chair, fig. 1241, £2 10s.

WASHING PANS.

Porcelain Pans, with flat bottoms; shallow, for preparing calotype or positive paper, and deep, for washing, &c.

	or positi	ve paper, a	nd deep	, for wa	shing	s, &c.			
1241	Shallow,	suitable siz	e for par	per, 5 in	nches	by 4 i	nches	£(0 9
1241a	Deep	, dan	,,	5	"	4	"	(0 11
1242	Shallow	"	"	7	"	6	"	(1 4
1242a	Deep	"	"	7	"	6	"	(1 7
1243	Shallow	"	"	9	"	7	"	(17
1243a	Deep	"	"	9	"	7		(1 10
1244	Shallow	"	"	11	"	9	"	(2 9
1244a	Deep	"	"	11	"	9	"	(3 4
1245	Shallow	"	"	12		10	"	(3 6
1245a	Deep	,, nont	"	12	"	10	"	0	4 10
1246	Shallow	"	"	15	"	9	"	0	60
1246a	Deep	"		15	"	9	"	0	7 3
1247	,,		"	17	"	12	"	0	12 0
	**	"	22	+1	22	14	99	•••	

Glass Dishes, with polished bottoms and edges, for washing and preparing calotype paper, possessing the great advantage over the porcelain trays of not absorbing chemical solutions, so that they may, i required, be used for different solutions, one after the other, without fear of that admixture that would ensue if the ordinary pans were employed

1249 1250	71 01	inches	by 5½	inches,	inside measurement			A section	£0	4	9
1251		"	01	"		•••	•••		0	8	9
1252	191	"	701	"	"				0	12	9
	142	"	102	"	"		•••		0	16	6

COLLODION DIPPING BATHS.

Collodion Dipping Baths, of glass, fitted into a mahogany stand, with glass dipper, fig. 1256.

1050	TO 1 .		0	PP-1,	18. 1200.		
1256	For plates 4	inches l	by 3 inches		£0	2	8
1258	,, 5	"	4 "		0	3	6
1259	,, 6	"	5 "		0	5	3
1259a	, 8	"	6 ,,	•••	0	9	0
12000	"	£ 27	7 ,,	•••	0	10	6



Fig. 1256.

Collodion Dipping Baths, of gutta percha, with support and glass dippers, fig. 1260.

260 261	For plates 4	in. by	3 in.,	and	dipper	£0	2	3
262	,, 5	"	4	"		0		
263	" 6	"	5	"		0	4	0
264	" 8	22	6	"		0	6	3
104	,, 9	22	7	"		0	7	6

12 12 12

Fig. 1260.

1265 Travelling Bath, with water-tight top, for plates, 9 in. by 7 in., with dipper, 13s. 1266 Ditto, for plates 10 in. by 8 in., ditto, 16s.

1267 Ditto, for plates 12 in. by 10 in., ditto, 18s. 6d.

Glass Plates for the Collodion Process.

Best Patent Plate,

						Bes	t Flatted	Crown	Glass		with Ground	Edge	es.
1900	~.							8.	d.			S.	d.
14080	Size	$2\frac{1}{2}$	inches	by 2 in	nche	es, I	per dozei	n 0	2		per dozen	0	9
1268 1269	"	31	"	$2\frac{3}{4}$	"		"	0			,,	1	2
1970	"	4	"	3	"	•••	"	0			"	1	7
1271	"	44	"	$3\frac{1}{4}$	"	•••	"	0			"	1	8
1970	99	5	"	4	"		"	0	9		"	2	6
12/2	27	6	"	5	22		"	1	3		"	3	8
12/3	22	61	,,	43	22		"	1	4		2 20 20	3	8
1274	22	7	"	6	22		"	1	8		"	5	2
1275		8		6			"	2	2		"	5	8
1276	"	01	"	61	"	US BARRIE		2	6		DESTRUCTION OF THE PARTY OF THE	6	9
1277	"	81/2	"	02	"		"		3	•••	"	7	6
h.	22	9	"		"	•••	"	, ,	mond.	11	"	100	

in by 8 in., 12s. doz.; 12 in. by 10 in., 18s.6d. doz.; and larger sizes to order. Sizes not in this list charged proportionately dearer.

Plate boxes for glass plates, see next page.

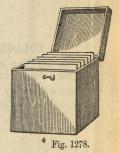
Plate Boxes, of white wood, for holding one dozen glass plates, fig. 1278.

						8.	d	40000						8.	d.
1278	For plat	es 33	in.b	y 23	in.				For plat	tes 61	in.b	y 43	in.	2	0
1279	,,	4	edic	3	BITT	1	5	1294	"	7		6	"	2	6
1290		41		31	"	1	5	1295	"	8	"	6	**	3	0
1291	"							1296	"	$8\frac{1}{2}$	"	$6\frac{1}{3}$	"	3	0
1292	"							1297		9	"	7	"	3	4
	"	To the second	7)		77	1000		101	"	Mark Town	77	THE REAL PROPERTY.	"		









LEVELLING STANDS.

Levelling stands for fixing glass plates perfectly level, so that developing or other solu-tions may be poured on to them without fear of its running off, and for use in supporting Daguerreotype pictures whilst being fixed by the solution of gold.

Levelling Stand, iron foot, with adjusting screws, vertical rod, and 1298 ring, fig. 1298, 2s.

Levelling Stand, triangular form, of bronzed brass, with three feet 1299 and six adjusting screws, for supporting any size plate up to 61 inches by 43 inches, fig. 1299, 6s.

Ditto, for supporting the larger size plates, 7s. 1300

Levelling Stand, oval cast-iron foot, vertical rod, and triangular sup-1301 port, with adjusting screws, and binding screw to set it at any height, for supporting plates of any size up to 6 inches by 5 inches, 7s. 6d.

Levelling stand, of glass, tripod form, triangular top, 1s. 9d. 1302



Fig. 1303.

Horne & Co.'s Reversing Frames, suitable for obtaining positive pictures from both glass and paper negatives, with jointed back, allowing the progress of the picture to be observed without disturbing its position.

1303	Size of glass 6 in		****	 	£0 4 6	
1304 1305	" $7\frac{1}{2}$	" $\frac{6\frac{1}{2}}{7\frac{1}{2}}$ "	unifo duil a	300 MM	0 6 0	
1306	", $11\frac{1}{2}$	$\frac{91}{2}$ "	sulp, Ada s		0 10 0	

BRUSHES.

- 1307 Camel's Hair Brushes, for spreading solutions on paper, &c., small size, round form, in quill handles, 2d.
- 1308 Large size, in turned wood handles, 10d.
- 1309 Camel's Hair Pencil, flat form, fitted to wooden handles, without tin or other metal, for rapidly coating paper, &c., with solutions, 1 inch wide, 10 d.

1310 Ditto, $1\frac{1}{2}$ inch wide, 1s. 3d.

- 1311 Ditto, 2 inches wide, 1s. 8d.
- 1312 Buckle's brushes for applying solutions to paper, as recommended in *Thornthwaite's Guide to Photography*, consisting of a glass handle, silver wire hook, and a supply of cotton wool, 1s. 9d. each.
- 1316 Glass Stirring Rods, for mixing liquids, 6 inches long, 2d. each.
- 1317 Ditto, 9 inches long and stouter diameter, 3d.
- Glass Rods, with bent handles, for spreading solutions evenly on paper, without fear of contamination from impurities that sometimes arise from using hair brushes.
- 1319 For use to cover paper, 9 inches square, 9d.
- 1320 For use to cover paper, 7 inches square, 9d.
- Spirit Lamps, in brass, with screw cap, for use in travelling, 3s.

SCALES AND WEIGHTS.

Balances, with steel beam, and sets of weights from two drams down to half a grain, in a box.

- 1323 Common beam, brass pan, in oak box, 2s. 6d.
- 1324 Superior beam, brass pan, in mahogany box, 3s. 9d.
- 1325 Superior beam, glass pans, in oak box, 5s. 9d.
- Oval box end beams, with brass pans, in mahogany box, 6s.
- 1327 Oval box end beams, with glass pans, in mahogany box, 8s. 6d.
- Oval box end beam balance, with brass pillar and glass shifting pan with drawer for weights and packing, £1 16s.

Filterer, in stoneware, for purifying and preserving water, half-gallon size, with brass tap, &c., complete, 9s.

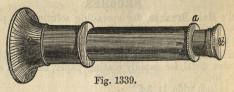
Glass Mortars and Pestles.

- 1331 Contents, \(\frac{1}{4} \) pint, 2s. 6d.
- 1332 Contents, $\frac{1}{2}$ pint, 3s. 9d.
- 1333 Contents, 1 pint, 5s. 9d.

Glass Funnels, for filtration and decanting.

- 1335 2 inches diameter, 4d.
- 1336 4 inches diameter, 6d.
- Filters, ready cut, in packets of 100, for 1335 funnel, 6d.
- 1338 Ditto, for 1336 funnel, 1s. 1d.

Fig. 1335.



Focusing Eye-pieces, in brass, with clamping screw and case, 1339 fig. 1339, 12s.

In order to obtain that extreme sharpness of outline so necessary in photographic pictures, it is absolutely essential that the focusing the object on the ground glass focusing frame be performed with extreme accuracy. The unassisted eye is of itself not sufficient to effect this, and the focusing eye-piece must be employed in the following manner:-Adjust the eye-piece so that it shall exactly focus the roughness of the focusing glass. To do this, carefully note the side of the focusing glass that is outwards when the frame is in its position in the camera, and take the focusing frame in the right hand, so that this side shall be nearest you; then take the focusing eye-piece in the left hand, having previously unscrewed the clamping screw a, and fix its broad end on the focusing glass, and observe if the roughness of the surface of the focusing glass appears sharp and defined to the eye looking into the eye end b. If such is not the case, shift the sliding tube up or down until the greatest amount of clearness is produced, and then tighten the clamping screw, so as to prevent any shifting taking place, and to insure the eye-piece remaining in perfect adjustment. To use it, the broad end c is placed on the ground focusing glass, and the lens or body of the camera shifted in or out until the greatest amount of sharpness of the picture is produced. At the suggestion of Mr. Horne, many persons use a focusing glass with a central polished spot about the size of a shilling, and having arranged the camera so that the principal object shall occupy the required position, the base of the eye-piece is placed over the central polished spot, and the body of the camera or the lens is shifted in or out until the market of the camera or other or of the camera or other or of the camera or other or oth the maximum amount of sharpness of the picture when viewed through the eye-piece is produced. This central polished spot is of essential use where a focusing eye-piece is used, as, the image being received on a polished surface, and there viewed by the eye-piece, the indistinctness caused by the irregular refraction of the ground glass is entirely obviated. But it must be borne in mind, that the image viewed through the central spot by the naked eye cannot be used to determine when the best focus is obtained, and that this central spot is only useful when the focusing eye-piece is used.

- 1340 Focusing glass in japanned tin. 2s.
- Instrument to count Seconds, with bell, £1 10s. 1341
- Glass Carboy, enclosed in wicker basket work, for 1343 holding distilled water, 2 gallons, 3s. 9d. Washing trays, see No. 1242.
- 1344 Glass Spirit Lamps, 2 ounces, fig. 1344, 1s. 2d.
- 1345 Ditte, 3 ounces, with screwed wick holder, 2s.
- 1346 Ditto, 4 ounces, ditto, 3s. 6d.



Photographic Lanterns, glazed with yellow glass, for use in preparing sensitive papers, &c., so as to protect the sensitive coating from being influenced by the light.

Square form, with three sides glazed, and folding handle, 3s. 3d. 1347

Circular form, bull's eye front, with yellow glass circle and rotating 1348 body, so that the light may be partially or completely shut off if required, 9s. 6d.







Fig. 1358.

Graduated Glass Measures, conical torm, accurately divided.

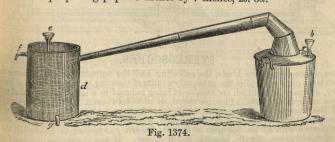
1349 1350	Contents	2 drams	 <i>s</i> . 0	d. 9	1352	Contents 4 ounces	s. 1	d. 6
1351		1 ounce 2 ounces			1353	. 6		10

Graduated Glass Measures, cylindrical form.

1358	0	es designed and se		8.	d.	latitude of					8.	d.
1359	Contents	1 dram		0	9	1363	Content	s 8	ounces		1	11
	"	2 drams		0	9	1364		16			9.	8
1360	29	1 ounce		1	0	1365	"	20	"		2	4
1361		2 ounces	120,100,23	î	0	1366	" "		"	•••	1	0
1362	"	1		7	0		"	32	"	•••	4	0
	29	4 ,,		1	6	1367		40			5	8

Preparing Boards, on which paper is pinned, in order to apply sensitive coatings by a brush.

Size for preparing paper 7 inches by 6 inches, 2s. Size for preparing paper 9 inches by 7 inches, 2s. 6d.



Still, with refrigerator, for the distillation of water with the aid of a common fire, fig. 1374.

1-gallon size, in tin, 18s.

2-gallon size, in tin, £1 3s. 1-gallon size, body of copper, £1 18s.

2-gallon size, body of copper, £2 14s.

PHOTOGRAPHIC PICTURES.

1379 Photographic Pictures, comprising a great variety of views taken in all parts of the globe, architectural elevations, details and perspective views of the finest palaces, churches, &c., in Venice, Russia, France, and Rome; also, views in Egypt, Syria, and the East, &c. Some of these are of large size, measuring 18 inches by 14 inches, 14 inches by 12 inches; the prices vary according to size and excellence, from 3s. 6d. to 12s. 6d.

STEREOSCOPIC PICTURES.

- 1380 Stereoscopic Pictures, on paper, taken by photography, embracing views taken from some of the most remarkable places in Europe, 10d.
- 1381 Ditto, of superior character, having finest detail, and taken by superior artists. 1s. 2d.
- 1382 Transparent Stereoscopic Pictures, on glass, taken from albumen or collodion negatives, 2s. 6d.
- 1383 Ditto, of a very superior character, having the minutest detail exquisitely represented, and the general picture artistically produced, 4s. 6d.

The value of stereoscopic pictures taken by photography depends so much on the minute detail being preserved, and the careful selection of such spots as afford artistic pictures, the productions of superior artists always command a higher price than those of a mediore character. This remark may tend to explain the variation in price of somewhat similar articles.

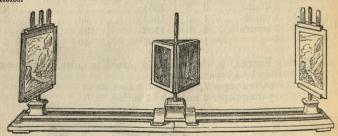


Fig. 1386.

STEREOSCOPES.

Stereoscopes are of two kinds, the reflecting and the refracting; the former is used to exhibit large pictures, whilst the latter only admits of viewing representations of buildings scenery, statuary, &c., which are capable of being reduced to a small size without suffering any loss of artistic effects. Pictures taken, so as to be viewed by the stereoscope, afford one of the most interesting subjects which optical science affords, as two pictures of the same subject, properly taken at different angles, when viewed by the stereoscope, stand out as one picture with all the boldness of nature; indeed, it appears to possess all the attributes of solidity, viz., length, breadth, and thickness. If the pictures are taken from life, the faithfulness of the representation is so complete, that no description can convey a just idea of its perfection. The effect must be seen to be appreciated.

- 1386 Reflecting Stereoscope, for large views, with adjustment, so that either the pictures or mirror may be raised, depressed, or moved horizontally, as may be required, £1 15s.
- 1387 Photographic Pictures, in pairs, to be viewed by the refracting stereor scope in great varieties, 10s. per pair.







Fig. 1393.

- 1388 Refracting Stereoscope, in japanned tin, with one dozen printed dia grams, in box, serving to illustrate the optical facts displayed by this instrument, 4s. 6d.
- Refracting Stereoscope, in body, covered with paper, 2s. 10d.
- 1390 Refracting Stereoscope, in polished mahogany, with brass eye-
- Refracting Stereoscope, in polished mahogany, with brass eye-pieces, glass bottom, and hinged flap, 13s.
- Refracting Stereoscope, in polished mahogany, with highly finished eye-pieces, glass bottom, and hinged flap, best make, of very superior appearance, 16s.
- Refracting Stereoscope, of the best construction, mounted on massive brass stand, capable of being raised, depressed, or inclined to any angle, so as to admit of the exhibition of stereoscopic pictures to a number of persons consecutively, without fear of any derangement of the instrument, £1 8s.

PORTABLE TENTS.

- Portable Tent, for operating in the open air with collodion or other sensitive compounds, consisting of a tripod stand 6 feet high, supporting a moveable and folding table, capable of being fixed 3 feet from the ground, with black cloth covering lined with yellow linen—the legs jointed so as to fold into lengths of 3 feet, which enables the whole to be packed into a small compass, £2 10s.
- Ditto, with waterproof covering, square form, £5 10s.
- Pneumatic Plate-holder, fig. 1396, for holding glass plates whilst being cleaned, or during the application of collodion or albumen: to use it, the point of the fore-finger is pressed on the brass top, and whilst the pressure of the finger is continued, the other end a is pressed on the glass plate; on removing the finger, the plate will be found to adhere and may be cleaned, or a sensitive compound applied; the application of the pressure will detach the plate from the holder: 2s. each.



Fig. 1396.

1396A Ditto, larger size, with lever, 4s.

PHOTOGRAPHIC PAPER,

Selected with the greatest care from the following eminent makers.

Canson Freres,

- 1397 Negative, size $22\frac{1}{2}$ inches by $17\frac{1}{2}$ inches, 2s. 3d. per quire.
- 1398 Positive, size $22\frac{7}{2}$ inches by $17\frac{7}{2}$ inches, 3s. per quire.

Whatman's or Hollingsworth's.

- 1399 Negative, size 19 inches by 15 inches, 2s. 6d. per quire.
- 1339a " size 22 inches by 13 inches, 4s. per quire. 1400 Positive, size 19 inches by 15 inches, 2s. 6d. per quire.
- 1400 Townsood's, size 19 inches by 15 inches, 2s. 2d. per quire.

Turner's Photographic Paper.

- 1404 Negative, size 15 inches by 9 inches, 2s. 2d. per quire.
- 1405 Positive, size 15 inches by 9 inches, 1s. 2d. per quire.

German Paper.

- 1406 Negative, size $22\frac{1}{2}$ inches by $17\frac{1}{2}$ inches, 2s. 3d. per quire.
- 1407 Positive, size $22\frac{7}{2}$ inches by $17\frac{7}{2}$ inches, 3s. per quire.
- 1408 Horne & Co.'s Waxed Paper, size 17½ in. by 11¼ in., 5s. 3d. per qu.
- 1409 Horne & Co.'s Waxed Paper, Iodized, size $17\frac{1}{2}$ inches by $11\frac{1}{4}$ inches, 11s. 6d. per quire.
- 1410 Portfolios for waxed paper, &c., 11½ inches by 9½ inches, 2s.
- 1411 Ditto, 17½ inches by 11¼ inches, 2s. 9d.
- 1412 Horne & Co.'s Waxed Paper rendered sensitive, and ready for use, to keep ten days, size 114 inches by 9 inches, 7s. 6d. per dozen.
- 1413 White Bibulous Paper, prepared free from iron or other impurities,
 Is. per quire.
- 1414 Papier Joseph, 10d. per quire.

IODIZED PAPER.

Horne & Thornthwaite's Iodized Paper.

- 1416 Size 7 inches by 6 inches, 2s. 3d. per dozen.
- 1417 Size 9½ inches by 7½ inches, 3s. 9d. per dozen.
- 1418 Size 10 inches by 8 inches, 6s. per dozen.
- 1419 Size 15 inches by 12 inches, 9s. per dozen.
- 1420 Solution for iodizing paper, 1s. 2d. per ounce. 1421 Solution for iodizing waxed paper, 4s. per pint.
- 1422 Solution for rendering the above sensitive, 7s. 6d. per pint.

ALBUMENIZED PAPER.

- 1423 Horne & Co.'s Albumenized Paper, for printing positives in a very superior manner, by the use of which greater depths of tone and finer detail can be obtained than by any other paper hitherto introduced size 114 inches by 9 inches, with direction for use, 2s. 9d. per quire.
- 1424 Ditto, $17\frac{1}{2}$ inches by $11\frac{1}{4}$ inches, 5s. 6d. per quire. 1424 Δ Ditto, $22\frac{1}{2}$ inches by $17\frac{1}{2}$ inches, 11s. per quire

PHOTOGRAPHIC COLOURS

1425	Box containing 7	colours, with	brushes, g	old and sil	ver shell	£0	6	0	
1426	Ditto, containing	14 colours		barn god		. 0	8	3	
1427	Ditto, "	21 "		2 somploing	politica.	. 0	12	0	
1428	Separate colours.	of all tints, 10	d. per bott	de.					

- 1429 Camel's hair brushes, 10d. per dozen.
- 1430 Sable ditto, 6s. 6d. per dozen.
- 1431 Elastic bottle, for removing dust from the plate, small size, 2s.

FRAMES FOR MOUNTING PHOTOGRAPHIC PICTURES.

The gilt mats or openings of the ormulu frames, the papier maché frames, the morocco cases and frames, and passe partouts, are of three shapes: the dome, similar to fig. 1434; the oval, similar to fig. 1438; and the cushion-shape, like fig. 1442. Our customers are recommended to state which shape they prefer when giving their orders for this article.



Fig. 1434.



Fig. 1438.



Fig. 1442.

ORMOLU FRAMES

The frames are made of a metal closely resembling gold, in the Louis XIV. style of pattern, with either dome, oval, or cushion-shaped gilt mats, with best white glass and suspension ring, fig. 1434, and are intended for holding pictures either on metal, glass, or paper.

	101 HOLGEL					AND DURING		00	OTO	
1434	For holding	pictures	.2½ in	iches by	2 inches			£0	0 10	
1435		"	$3\frac{1}{4}$	"	$2\frac{3}{4}$,,			0	1 0	
1436		"	44	"	$3\frac{1}{4}$,,	•••	10000	0	2 3	
1437	22	22	5	22	4 ,,	•••	•••	0	3 6	
1437*			6	22	5 ,,		•••	0	0.0	

BLACK PAPIER MACHE FRAMES.

These frames are made of papier maché with a black ground, having an ormolu or imitation gold chased opening, with dome, oval, or cushion-shaped mats and suspension ring, fig. 1438, and are well adapted for receiving Daguerreotype or collodion pictures.

1438	For holding	picture	$s 2\frac{1}{2}i$	nches by	y 2 ir	nches	 	 £0	1	9
1439	"	"	31	"	$2\frac{3}{4}$	"	 			
1440 1441	"	27	44	2)	, =	"	 		-	•
TAAT))	"	0	22	4	22	 •••	 U	U	

GUTTA PERCHA FRAMES. (Two Patterns.)

These gutta percha frames consist of an elegant designed edge in gutta percha (mounted, for strength, on wooden frames), the dark colour of the material affording a striking contrast to the predominant white of some pictures, fig. 1442.

1442 For holding passe partouts which contain pictures $2\frac{1}{2}$ in. by 2 in., 9d. 1443 For holding passe partouts which contain pictures $3\frac{1}{4}$ in. by $2\frac{3}{4}$ in. ls.

1444 For holding passe partouts which contain pictures 4 in. by 3 in., 1s. 2d.

1444a For holding passe partouts which contain pictures 5 in. by 4 in., 1s. 6d. 1444b For holding passe partouts which contain pictures 6 in. by 5 in., 1s. 11d.



Fig. 1445.

PASSE PARTOUTS.

These are frame smade of cardboard, covered with glass, coloured or ornamented in a variety of patterns. Fig. 1445 is a representation of the article; the ground in one kind is dark brown, with an edge of dead gold around the opening, surrounded by a thin circlet of burnished gold; in another kind, the ground is white enamel, the opening of dead gold, surrounded by a rim of black, and around the whole a circlet of burnished gold; in a third kind the ground and opening are of dead gold, with an inner fillet and outer circlet of burnished gold.

-	The state of the s			Fo	r hol	din	g Pie	etur	es or	ı Pla	tes.		
	PER DOZEN.	$\frac{1}{2\frac{1}{2}}$	by 2	2311	hw 93	111	by 31	15	bv 4	61	ov 43	8½ by	61 0
1445	Passe Partouts, dark ground, with bronze mountings, and gold line, oval, dome, or cushion	8.	d.	8.	d.	8.	d.	8.	a.	8.	a.	0.	
1451	Passe Partouts, white ground, with bronze mountings, and gold and		9	2	3	2	11	5	0	6	0	10	9
1452	black line, oval, dome, or cushion shape			3	4		0		9			16	
1453	respectively. Cushion shape Passe Partouts, white cardboard ground, with white bevel and gilt mats, extra wide margins, ex-			7		8			6			38	0
	ceedingly neat	4	0	5	2	6	3	8	0	9	6	14	0

FRAMES FOR PASSE PARTOUTS.

		For	hol	lding		se Parto the follo				in	pictur	res
	PER DOZEN.	2½ b;	y 2 d.	3½ by	$\frac{2^{3}}{d}$	4½ by 3½ .s d.	5 by	7 4 d.	6½ by	43 d.	8½ by	6! d.
1456	Rosewood frames, renais-			of the same		ence by	ut &l		plant			
	sance pattern, square form	4	6	5	0	5 10	7	3	8	0	12	6
1457	Rustic oak, richly orna-			2600		11.20			To be		1	
	mented, square shape	11	3	11	9	12 9	16	3	23	6	33	9
1458	Rustic oak, richly orna-			30 7			1		1 0		6	
	mented, oval shape	11	9	12	9	14 3	18	0	27	0	36	0
1459	Gilt frames, richly carved,											
	cushion or oval shape	27	0	32	6	37 0	43	6	43	6	69	0

MOROCCO CASES.

Morocco Leather Cases, fig. 1464, are lined with silk or cotton velvet, fitted with dome, oval, or cushionshaped gilt mats, best white glass and hinged cover, for receiving and preserving Daguerreotype, Talbotype, and collodion pictures.



				Siz	es to	rece	ive :	Plate	s.		
	STAN W	211	oy 2	34 1	$\frac{2^{3}}{d}$	4½ by	31/4	5 by	4	6½ by	7 43 d.
1460	Morocco leather Cases, fig. 1464, with embossed leather top, lid lined with embossed cotton velvet, fitted with mats and			Ad I		36 to 19,170 19,170			TO T		
	glasses per doz.	3	8	5	10	9	0	14	3	22	6
1461	Ditto, gilt edges to rim, per doz.	4	0	6	9	10	0	15	9	24	6
1462	Morocco leather Cases, with embossed leather top and bottom, lid lined with embossed silk velvet, gilt edges to rim, mats and glasses, per doz.	5	10	9	6	14	3	25	0	40	0 0
1463	Morocco leather Cases, extra best quality, with mats and glasses per doz.	8	0	12	6	15	9			-	

MOROCCO FRAMES.

Morocco Leather Frames, fig. 1475, lined with velvet, gilt edges, fitted with dome, oval, or cushion-shaped gilt mats, and glasses, for containing Daguerreotype, Talbotype, or collodion pictures.

For plates 21 inches by 2 inches ... per dozen £0 3計 0 15



Fig. 1475.

GILT MATS.

Gilt Mats, of superior quality, of oval, dome, or cushion shapes, for fitting into morocco cases or frames.

1471	For plate			y 2 inch		2000 mm	per dozen £0	
1472	,,		"	$2\frac{3}{4}$,,	B F	all own pr	, 0	0 10
1473	"	$4\frac{1}{4}$	"	$3\frac{1}{4}$,,		mo · · · · ·	" 0	2 6
1474	"	5	"	4 ,,	D & # 1	Signers 9	,, 0	5 0
1475	"	$6\frac{1}{2}$	"	$4\frac{3}{4}$,,	•••	min	,, 0	0 0

GLASS PLATES.

Glass Plates, for fitting into morocco cases, suspension frames, &c., with ground edges

1476		s, for plates	21	inches by	2 in	nches	рез	dozen a	E0	0	5
1477	"		34		$2\frac{3}{4}$	"		"	0	0 1	1
1478	"	"	44	"	34	"		"	0	1	2
1479	"	"	01	"	43	"	DEEL	"	0	1	9
1480	"	"	$6\frac{1}{2}$	"	44	27	another pr	"	V		

GERMAN MATS.

The German Mat is an elegant improvement on the common mat, No. 1471, consisting of highly gilt metal, with an ornamental border and exterior deep chased corner pieces.

			Pric	e pe	r do	z. :	External Size.	S	ize of opening	5.	Shape of
			£	S.	d.		INCHES.		INCHES.		opening.
1481	German	Mats,	£0	2	9		$2\frac{1}{2}$ by 2		2 by 15		dome.
1482	Ditto		0	2	9		$2\frac{7}{2}$ by 2		2½ by 15		oval.
1483	Ditto		0	5	6		$3\frac{3}{4}$ by $2\frac{3}{4}$		23 by 21		dome.
1484	Ditto .		0	6	0		$3\frac{1}{4}$ by $2\frac{3}{4}$		$1\frac{1}{8}$ by 1		oval.
1485	Ditto		0	5	6		$3\frac{1}{4}$ by $2\frac{3}{4}$		2½ by 1¾		oval.
1486	Ditto		0	5	6		$3\frac{1}{4}$ by $2\frac{3}{4}$		2½ by 2		cushion.
1487	Ditto		0	6	9		$4\frac{1}{4}$ by $3\frac{1}{4}$		3\frac{1}{2} by 2\frac{1}{2}		dome.
1488	Ditto		0	7	6		$4\frac{1}{4}$ by $3\frac{1}{4}$		$3\frac{3}{4}$ by $2\frac{3}{4}$		oval.
									A TOTAL STATE OF		

1489 Preservers. These are frames composed of thin gilt metal, having an elegantly chased beading on the edge, and are employed for the purpose of keeping the glass plate of the case, the mat, and the glass plate on which the picture is taken, in close contact; this prevents the admission of dust, and forms a chaste ornament when the picture is fitted into a morocco case.

Size. $2\frac{1}{2}$ by 2in.		$3\frac{1}{4}$ by $2\frac{3}{4}$	4½ by 3½	5 by 4in.	6½ by 4¾		
Price per dozen	s. d. 0 8	$\begin{array}{ccc} s. & d. \\ 0 & 9\frac{1}{2} \end{array}$	s. d. 1 6	s. d. 2 9	s. d. 4 0		

ESTIMATES OF SETS

OF

PHOTOGRAPHIC APPARATUS.

FOR THE COLLODION PROCESS ONLY.

A Complete Set of Photographic Apparatus for taking Portraits and Views, 4½ inches by 3½, and under, price, in a packing case, £3.

This set is adapted for taking positives on glass as described in the tenth edition of Thornthwaite's Guide to Photography, at page 25, and consists of a double achromatic lens (tested), mounted in brass, with rack and pinion adjustment; expanding camera with earner back; two plate holders and focusing glass, in frame; mahogany tripod stand, the brass top and screw to fix the camera; box of scales and weights, from 2 drams to I grain; porcelain washing tray; gutta percha bath and dipper; filtering paper and glass funnel; graduated measure; one dozen glass plates in box; bottles containing 6 oz. of nitrate of silver solution, ready prepared for the bath, 3 oz. positive collodion, 1 oz. iodizing solution, 1 pint of developing solution, 1 oz. cyanide potassium, and 1 oz. of crystal varnish; and directions for use.

1499 A Complete Set of Photographic Apparatus for taking Pictures, $6\frac{1}{2}$ inches by $4\frac{3}{4}$ inches and under, price in a packing case, £5 5s.

This apparatus is of a similar character to No. 1498, but capable of taking larger pictures and more effective in dull weather.

A Complete Set of Photographic Apparatus for taking Portraits and Views, 4 inches by 3 inches and under, price, in a travelling case with lock and key, £7 7s.

This set is adapted for taking portraits and views either by the positive process on glass, as described in Thornthwaite's Guide to Photography, "tenth edition," page 25, or by the negative process described at page 38, and for the printing of positives from such glass negatives as described at page 63. The lenses in this set are of Horne & Thornthwaite's own make, No. 1068, in this list, the camera is of mahogany, French polished, and the apparatus generally of a superior character.

- Set of Photographic Apparatus, same as No. 1499, but fitted with a portrait lens, No. 1071, of Horne & Thornthwaite's own manufacture, £10 10s.
- A complete set of Photographic Apparatus, adapted for taking portraits or views up to 5 inches by 4 inches, with best French polished expanding camera and double combination of achromatic lenses of our own make, mounted in brass, with rack and pinion adjustment, camera stand, and all the requisite apparatus and chemicals, £15 15s.

CONTENTS:—Of a similar character to No. 1501, but the camera is of the best manufacture, and constructed after the latest improvements. The double combination of achromatic lenses is our own make, having its chemical and visual rays perfectly coincident. The apparatus is of a superior quality, and the chemicals in larger quantities.

FOR THE COLLODION AND PAPER PROCESSES.

1503 A complete set of Photographic Apparatus, adapted for taking portraits by the collodion process, of any size up to 5 inches by 4 inches, and views by either the waxed paper and calotype process, up to 7 inches by 6 inches, with best make folding camera and leather knapsack for holding it, double combination of achromatic lenses for portraits and single lens for views, of our own make, mounted in brass, with rack and pinion adjustment, camera stand, and all the requisite apparatus and a supply of chemicals, positive and negative papers, &c., packed in a strong travelling case, £21.

CONTENTS: -A folding camera, of the best construction, with adjusting front, and one single back or exposing frame, for taking collodion pictures, 5 inches by 4 inches, and 4 inches by 3 inches, and one double back for paper, 7 inches by 6 inches; A double combination of achromatic lenses, of our own make, mounted in brass, with rack and pinion adjustment, and single lens for taking views; Leather knapsack for containing the camera. Camera stand, of the best construction; Buckle's brush; Set of scales and weights; Tripod levelling stand; Gutta percha bath, mounted on mahogany foot, with glass dipper; One dozen glasses of each size, 5 inches by 4 inches, and 4 inches by 3 inches, and boxes to hold them; Reversing frame, for printing positives from negative impressions; Two graduated glass measures; Glass rod; Preparing board, on which to pin salted paper whilst applying nitrate silver solution; Two porcelain washing trays; A good supply of negative, positive, albumenized, and filtering papers, and of the following chemicals, &c.: nitrate silver, iodide potassium, gallic acid, acetic acid, ammonia, negative varnish, cyanide potassium, iodized collodion, chloride of barium, hyposulphite of soda, pyrogallic acid, empty bottles for solutions, and packing-case to contain all the apparatus.

A complete set of Photographic Apparatus, adapted for taking portraits by the collodion process, of any size up to 6 inches by 5 inches, and views by the calotype or waxed paper process, 9 inches by 7 inches, with best make folding camera, double and single backs, double combination of achromatic lenses of our own make, mounted in brass, with rack and pinion adjustment, the front lens capable of being used for views as described at page 92, camera stand, and all the requisite apparatus and chemicals, packed in a strong travelling case and leather knapsack to contain the camera and backs, £26.

CONTENTS:-Portable folding camera, of Spanish mahogany French polished, with two apertures, the anterior one for taking portraits, and the posterior one for views, with one double and one single back or exposing frame, focusing glass in frame. The front of this camera has a double adjustment to vary the proportion of the foreground and sky in a picture; a double combination set of achromatic lenses of our own make, mounted in brass with rack and pinion adjustment; Leather knapsack, for holding the camera; Buckle's brush; Balance and set of weights; Two glass rods and preparing board; Reversing frame; Two porcelain washing trays; Two graduated glass measures; Glass funel; Levelling stand; Gutta percha bath, on mahogany foot, and glass dipper; Gutta percha dish; One dozen glasses of each size, 5 inches by 4 inches, and 4 inches by 3 inches, and boxes to hold them. Third appears the day of the graduated gr boxes to hold them; Tripod camera stand, and a good supply of positive, negative, albumenized, and filtering paper, and of the following chemicals: nitrate of silver, hyposulphite soda, distilled water, iodide potassium, gallic acid, pyrogallic acid, acetic acid, ammonia, cyanide of potassium, iodized collodion, iodide silver, protosulphate iron, negative varnish, and empty bottles for solutions-The apparatus and chemicals packed into strong packing case.

1505 A complete set of Photographic Apparatus, adapted for taking por traits by the collodion process, of any size up to 8 inches by 6 inches and views by the calotype or waxed paper process, 9 inches by 7 inches, with best make folding camera, double and single backs, a

FOR THE COLLODION AND PAPER PROCESSES (continued).

double combination of achromatic lenses, of full size for portraits, and a single achromatic lens for views, both of our own make, mounted in brass, with rack and pinion adjustment, best camera stand, all the requisite apparatus, positive and negative paper, and chemicals, packed in a strong travelling case and leather knapsack to contain the camera and backs, £36.

Contents:—A folding camera of the best construction, with focusing glass in frame; One single back and frames for collodion plates, 8 inches by 6 inches, 6 inches by 5 inches, and 5 inches by 4 inches, and one double back for views of paper, 9 inches by 7 inches; a full size double combination of achromatic lenses for portraits, and single achromatic lens for views, both of our own make, mounted in brass, with rack and pinion adjustment, Leather cases, for containing the camera; Buckle's brush; Set of scales and weights; Two glass rods; Reversing frame, for printing positive pictures from negative impressions; Two porcelain washing trays; Preparing board, on which to pin salted paper, to apply nitrate silver solution; Two graduated glass measures; Glass funnel; Tripod levelling stand; Gutta percha bath, mounted on mahogany stand, and glass dipper; One dozen each size glass plates, 8 inches by 6 inches, 6 inches by 5 inches, and 5 inches by 4 inches, and boxes to contain them; One gutta percha washing tray; Folding camera stand; and a full supply of negative, positive, albumenized, and filtering papers, and of the following chemicals: nitrate silver, iodide potassium, gallic acid, pyrogallic acid, glacial acetic acid, negative varnish, cyanide of potassium, ammonia, iodized collodion, muriate of ammonia, protosulphate iron, iodide silver, hyposulphite soda, &c.—The whole of the apparatus and chemicals packed in a strong packing case.

FOR THE PAPER PROCESS ONLY.

A complete set of Photographic Apparatus, for taking pictures on paper by the calotype or waxed paper process, of any size up to 5 inches by 4 inches, and containing all the necessary apparatus and chemicals, £5 5s.

CONTENTS:—A mahogany camera, French polished; Focusing glass in frame, and exposing frame; Achromatic lens, mounted in brass, with rack and pinion adjustment; Porcelain washing tray; Set of scales and weights; Reversing frame, for producing positive pictures from negative impressions; Graduated glass measure; Two photographic brushes; Tripod stand, for supporting the camera; Glass funnel; Preparing board; Glass rod; A supply of negative, albumenized, filtering, and waxed paper; and the following chemicals: nitrate silver, acetic acid, iodide silver, gallic acid, hyposulphite soda, ammonia-nitrate of silver, chloride of barium, and bottles for solutions—The whole enclosed in a strong packing box.

A complete set of Photographic Apparatus, for taking pictures on paper by the calotype and waxed paper process, of any size up to 7 inches by 6 inches, and containing all the necessary apparatus and materials, £10 10s.

Contents same as No. 1506, but with camera of more perfect construction and of larger size, the lens of larger diameter, and apparatus and chemicals of a more extensive character.

A complete set of Photographic Apparatus, for taking pictures on paper of any size up to 9 inches by 7 inches, and containing all the requisite apparatus and materials, £17 17s.

THE SET CAN BE HIGHLY RECOMMENDED. The Camera is of the most perfect construction, the lens of our own construction, and the whole is conveniently arranged for travelling.

Sets of Daguerreotype Apparatus, from £10 to £100.

PURE CHEMICALS AND PREPARATIONS FOR PHOTOGRAPHIC PURPOSES.

Acid, acetic, glacial, pure, for the paper process.1s. per ounce.

acetic, glacial, for the collodion process, 6d. per ounce, 6s. per lb.

acetic, for ditto, 3d. per ounce.

formic, 4d. per ounce. 22 gallic, 1s. per ounce.

pyrogallic, 7s. per oz., 1s. per dram. sulphuric, pure, 1d. per oz., 1s. per lb. Ammonia, pure, 1d. per ounce. 1s. per lb.

muriate, free from iron, 2d. per oz. Ammonium, bromide, 4s. 6d. per ounce.

iodide, variable, 3s. per ounce. Barium, chloride, 2d. per ounce, 2s. per lb. iodide, variable, 3s. 6d. per ounce.

Baryta, nitrate, pure, 3d. per ounce. Bromide of cadmium, 4s. per ounce. Bromide of lime, 2s. 6d. per bottle. Bromine, in 1-ounce bottles, 2s. 3d. Cadmium, bromide. 4s. 6d. per ounce.

iodide, 3s. 6d. per ounce. Calcium, bromide, 4s. 6d. per ounce.

iodide, 4s. per ounce. Charcoal, animal, pure, 6d. per ounce.

prepared, for polishing plates, 1s. per packet.

Collodion, 7d. per ounce.

iodized, 7d. per ounce. Cotton wool, best, 3d. per oz., 2s. 3d. per lb. Dextrine, 3d. per ounce. Æther, sulphuric, rectified, 5d. per ounce.

Gold, chloride, in bottles, 4-dram, 3s. 1-dram, 5s. 1-dram, 8s.

Gold, salt of, Sel d'or, 3s. per bottle. ,, solution, for darkening positives, 1/6 oz. Honey, purified, 4d. per ounce. Iodine, chloride, 4s. per ounce.

pure, re-sublimed, 1s. 6d. per oz. Iron, iodide, 10d. per bottle of 1 dr.

" protosulphate, pure, 1d. per oz., 8d. lb. Lamp black, prepared for buffing, 1s. per pkt. Magnesia, nitrate, 5d. per ounce.

Mercury, pure distilled, 3d. per ounce, 2s. 6d. per lb.

Naphtha, for lamp, 1s. 6d. per pint. Oxymel, 4d. per ounce.

Potassa, nitrate, powdered, 10d. per lb. Potassium, bromide, pure, 2s. per ounce.

fluoride, 2s. per ounce. iodide, variable, 1s.6d. per ounce.

Rottenstone, prepared, 6d. per ounce. Silver, ammonio-nitrate, 10d. per ounce.

chloride, 6s. per ounce. ,,

iodide, 6s. per ounce. " iodide, in iodide of potassium, 1s. 6d. ..

per ounce. nitrate, crystallized, 4s. per ounce.

nitrate, fused, 4s. 6d. per ounce. Soda, hyposulphite, 8d. per lb., 1d. per oz. Sodium, chloride, pure, 2d. per ounce.

fluoride, Is. per ounce. Solution for iodizing waxed paper, 4s. pint.

Solution for rendering waxed paper sensitive, 8s. per pint. Sugar of milk, 3d. per ounce.

Test paper, Clark's, 6d. per book. Tripoli, prepared, for polishing, 3d. per oz. Varnish, chloroform, 10d. per oz. Water, distilled, pure, 6d. per gallon.

White wax, 3s. per pound.

The foregoing prices are subject to variation.

Horne & Thornthwaite's Crystal Varnish, for protecting collodion positives from injury affording an extremely hard and transparent covering, which dries in a few seconds, and is very easily applied-price, with directions, 4 ounces in bottle, 1s.

Horne & Thornthwaite's Negative Varnish, for protecting glass negatives from lnjury during printing, &c., 1s. 6d. the 4oz. bottle.

HORNE & THORNTHWAITE'S POSITIVE COLLODION.

This collodion, when iodized with the positive iodizing compound, yields positives on lass which possess the strongest contrasts of light and shade. The whites are of a pearly hue, without metallic lustre; the middle tints finely delineated; and the deep shades clear and transparent. Price 7d. per ounce; Iodizing Solution for ditto, 7d. per ounce; or 11s. 6d. per pint of 20 ounces, bottles included.

HORNE & THORNTHWAITE'S NEGATIVE COLLODION.

This collodion when iodized with the negative iodizing compound, is adapted for the production of negative pictures on glass; it possesses extreme toughness, yields deep-toned negatives, with well-developed middle tints, and is extremely sensitive and constant in its action. Price 7d. per ounce; Iodizing Solution for ditto, 7d. per ounce; or 11s. 6d. per pint of 20 ounces, bottles included

As collodion, when iodized, does not keep good for more than three weeks or a month, it is advisable to have the iodizing solution separate in those cases where the whole stock ordered would not be used in that time; when separate, these compounds keep any length of time.